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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 09/890,497 | 07/31/2001 | Haruo Togashi | | 4794 |

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NEW YORK, NY 10151

EXAMINER

DUNN, MISHAWN N

| ART UNIT | PAPER NUMBER |
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|----------|--------------|

2616

DATE MAILED: 12/27/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | | |
|------------------------------|--------------------------------------|---------------------------------------|--|
| Office Action Summary | Application No. 09/890,497 | Applicant(s) TOGASHI ET AL. | |
| | Examiner Mishawn N. Dunn | Art Unit 2616 | |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 31 July 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 31 July 2001 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

1. Figures 1A-1E should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Double Patenting

1. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Art Unit: ***

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

2. Claims 1-4 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1 and 9 of copending Application No. 09/890498. Although the conflicting claims are not identical, they are not patentably distinct from each other because the claims of the instant application are substantially the same as that of the copending application.

This is a provisional obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

3. Regarding application claims 1-4, respectively recite all as recited in copending application claim 1, but the copending application claim fails to recite a "tape shaped record medium."

The examiner takes official notice that any recording medium could be used as long as video data can be recorded. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use, to further recite to record the recited stream to a tape shaped medium, as a choice of design.

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: ***

5. Claims 1 and 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoneyama (US Pat. No. 5,701,386).

6. Consider claim 1. Yoneyama teaches a recording apparatus for recording a digital video signal to a record medium (col. 3, lines 9-12; fig. 1), comprising: means for recording a stream in which a compression encoding has been performed (col. 3, lines 21-23; fig. 1) and a header has been added to the record medium (col. 3, lines 31-34; fig. 2B), wherein information of the header added to each frame is the same in all frames (fig. 2B).

Although Yoneyama does not specifically teach a tape shaped record medium, Yoneyama discloses disc-type record medium (col. 4, lines 20-21). An artisan with ordinary skill in the art would readily recognize that any recording medium could be used as long as video data can be recorded. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use, to modify the recording apparatus of Yoneyama by utilizing a tape record medium in order to be more cost efficient.

7. Consider claim 3. Yoneyama teaches the compression encoding generates a stream having a hierarchical structure (col. 3, lines 21-40; fig. 2B), and wherein the header is a header in the highest hierarchical level (col. 3, lines 31-34; fig. 2B).

8. Consider claim 4. Yoneyama teaches the compression encoding generates a stream having a hierarchical structure (col. 3, lines 21-40; fig. 2B), and wherein the header is a header that is added for each frame (col. 3, lines 31-34; fig 2B).

Art Unit: ***

9. Method claim 5 is rejected using similar reasoning as the corresponding apparatus claim above.

10. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoneyama (US Pat. No. 5,701,386) in view of Kosugi (US Pat. No. 6,426,771).

11. Consider claim 2. Yoneyama discloses all the claimed limitations as stated above, except that all the frames of the digital video signal have been compressed by intraframe encoding.

However, Kosugi teaches that all the frames of the digital video signal have been compressed by intraframe encoding (col. 3, lines 53-55; fig. 1). An artisan with ordinary skill in the art would readily recognize that before MPEG, a variety of JPEG methods were used to create consecutive frames. JPEG does not use interframe coding between frames and is easy to edit, but not as highly compressed as MPEG. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Yoneyama by utilizing JPEG compression to intraframe encode the entire digital signal in order to provide enhanced quality.

12. Claims 6, 8-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yoneyama (US Pat. No. 5,701,386) in view of Shinohara et al. (US Pat. No. 5,740,306).

13. Consider claim 6. Yoneyama teaches a recording apparatus for recording a digital video signal to a record medium (col. 3, lines 9-12; fig. 1), comprising: means for recording a stream in which compression encoding has been performed (col. 3, lines

Art Unit: ***

21-23; fig. 1) and a header has been added to the record medium (col. 3, lines 31-34; fig. 2B).

Yoneyama does not specifically teach a system area that is almost securely reproduced in a high speed reproducing operation of which the tape shaped record medium is traveled at higher speed than a recording operation is formed as an area separated from a record area for the stream, and wherein at least part of the header is recorded to the system area.

However, Shinohara et al. teaches a tape shaped record medium (col. 11, lines 15-16; figs. 1, 6-9, 50-57). Shinohara further teaches a system area that is almost securely reproduced in a high speed reproducing operation of which the tape shaped record medium (col. 11, lines 15-16; figs. 1, 6-9, 50-57) is traveled at higher speed than a recording operation is formed as an area separated from a record area for the stream, and wherein at least part of the header is recorded to the system area (col. 14, line 48 – col. 15, line 20; figs. 15, 20, 22-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use, to modify Yoneyama by utilizing a tape record medium in order to provide lower cost to the user with a system area that is almost securely reproduced in a high speed reproducing operation of which the tape shaped record medium is traveled at higher speed than a recording operation is formed as an area separated from a record area for the stream, and wherein at least part of the header is recorded to the system area in order to enhance the picture quality for fast playback.

Art Unit: ***

14. Consider claim 8. Yoneyama teaches the compression encoding generates a stream having a hierarchical structure (col. 3, lines 21-40; fig. 2B), and information recorded to the system area is information contained in the header added for each frame (col. 3, lines 31-34; fig 2B).

15. Consider claim 9. Yoneyama teaches the compression encoding generates a stream having a hierarchical structure (col. 3, lines 21-40; fig. 2B), and wherein information recorded to the system area is information contained in the header of the highest hierarchical level (col. 3, lines 31-34; fig. 2B).

16. Consider claim 11. Yoneyama teaches a reproducing apparatus for reproducing a record medium on which a stream has been recorded, in the stream, compression encoding having been performed and a header having been added (col. 4, lines 40-56; fig. 3), and the reproduced stream is decoded using information contained in the header reproduced from the system area (col. 42, lines 54-65).

Yoneyama does not specifically teach a system area that is almost securely reproduced in a high speed reproducing operation of which the tape shaped record medium is traveled at higher speed than a recording operation is formed as an area separated from a record area for the stream, and wherein at least part of the header is recorded to the system area.

However, Shinohara et al. teaches a tape shaped record medium (col. 11, lines 15-16; figs. 1, 6-9, 50-57). Shinohara further teaches a system area that is almost securely reproduced in a high speed reproducing operation of which the tape shaped record medium (col. 11, lines 15-16; figs. 1, 6-9, 50-57) is traveled at higher speed than

Art Unit: ***

a recording operation is formed as an area separated from a record area for the stream, and wherein at least part of the header is recorded to the system area (col. 14, line 48 – col. 15, line 20; figs. 15, 20, 22-29).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use, to modify Yoneyama by utilizing a tape record medium in order to provide lower cost to the user with a system area that is almost securely reproduced in a high speed reproducing operation of which the tape shaped record medium is traveled at higher speed than a recording operation is formed as an area separated from a record area for the stream, and wherein at least part of the header is recorded to the system area in order to enhance the picture quality for fast playback.

17. Consider claims 12 and 13. Shinohara et al. teaches the header is created with information contained in the header reproduced from the system area, and wherein the reproduced stream is decoded corresponding to the created header (col. 42, lines 54-65).

18. Consider claim 14. Yoneyama teaches a stream having a hierarchical structure (col. 3, lines 21-40; fig. 2B), and wherein the information reproduced from the system area is information contained in the header of the highest hierarchical level (col. 3, lines 31-34; fig. 2B).

19. Method claims 10 and 15 are rejected using similar reasoning as the corresponding apparatus claims above.

20. Claim 16 is analyzed and discussed with respect to the claims above.

Art Unit: ***

21. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yoneyama (US Pat. No. 5,701,386) in view of Shinohara et al. (US Pat. No. 5,740,306) in further view of Kosugi (US Pat. No. 6,426,771).

22. Consider claim 7. Yoneyama and Shinohara disclose all the claimed limitations as stated above, except that all the frames of the digital video signal have been compressed by intraframe encoding.

However, Kosugi teaches that all the frames of the digital video signal have been compressed by intraframe encoding (col. 3, lines 53-55; fig. 1). An artisan with ordinary skill in the art would readily recognize that before MPEG, a variety of JPEG methods were used to create consecutive frames. JPEG does not use interframe coding between frames and is easy to edit, but not as highly compressed as MPEG. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Yoneyama and Shinohara by utilizing JPEG compression to intraframe encode the entire digital signal in order to provide enhanced quality.


Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mishawn N. Dunn whose telephone number is 571-272-7635. The examiner can normally be reached on Monday - Friday 7:30 AM to 5:00 PM.

Art Unit: ***

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, James Groody can be reached on 571-272-7950. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


James J. Groody
Supervisory Patent Examiner
Art Unit 262-2614